CLAIMS

- 1. An oligoheteropolysaccharide composed by a heparin fraction having a mol wt comprised between 2,000 and 5,000 containing active groups, more particularly sulfuric groups, having the quantity and the positions which are characteristic of heparin.
- 2. Oligoheteropolysaccharide according to Claim 1, characterized in that it comes from the depolymerization of heparin with the reconstitution of the active groups, particularly the sulfuric groups, characteristic of heparin.
- 3. Oligoheteropolysaccharide according to Claim 1, characterized in that it is obtained from depolymerized heparins with reconstitution from the active groups of heparin.
- 4. A method for the preparation of the oligoheteropoly-saccharide according to Claims 1, 2 or 3, characterized in that a starting material selected from among heparin oligomers with a mol wt comprised between 2,000 and 5,000 and heparin fractions having a low mol wt is treated with an equal amount by wt of a sulfotrioxide of a nitrogenous organic base in an alkaline environment and the reaction product is precipitated with a water-miscible solvent and purified.
- 5. A method according to Claim 4, characterized in that said sulfotrioxide is selected from among the sulfotrioxides of piridine and trimethylamine.
- 6. A method according to Claim 4, characterized in that said water-misciple solvent is methanol, ethanol, acetone, dioxan.
- 7. A method according to Claim 4, characterized in that

for the purification the precipitated product is taken up in an aqueous solution and passed through an ion-exchange resin or a molecular sieve.

- 8. Oligoheteropolysaccharide according to Claim 1, characterized in that it has the following physico chemical properties:
- Average mol wt (determined with the Somogy method in comparison with commercial heparin) from 2,600 to 5,500 daltons
- Hexosamines after hydrolysis (reaction with p-dimethyl-amino benzaldehyde): 28% +/2%
- Uronic acids after hydrolysis (reaction with carbazol); $31\% \pm 4\%$
- Organic SO after hydrolysis (titration with naphtharsone): 30% ± 4%
- Molar ratios of urohic acids/hexosamines/ $-S0_A^- = 1/1/2$
- Specific rotatory power of the aqueous solution $\sqrt{\chi}$ = $+40^{\circ} +50^{\circ}$
- Electrophoresin of cellulose acetate (piridine/acetic acid/water (1/10/229) pH 4.5 and development with toluidine blue) = a single band with anodic mobility $U = 2.1 \cdot 10^{-4}$ cm² v² sec
- Powder of ivory color, amorphous and lightly hygroscopic
- Aqueous solution clear or slightly opalsescent
- pH of the 5% aqueous solution: 7 8
- 9. Oligoheteropolysaccharide according to Claim 8, characterized by a metachromatic identification reaction in which 1 ml of 2% solution of the product added to 1 ml of a 0.0025% solution of toluidine blue acidifies with 0.1 ml of 1N hydrochloric acid causes a discharge of the color from blue to reddish blue.

10. A therapeutical composition, (more particularly) for the prevention of thrombotic ailments, characterized in that it contains as the active ingredient the oligoheteropolysaccharide as claimed in Claim-1 and following.)

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